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PATENT COOPERATION TREATY

PCT/KR2003/002573

From the
INTERNATIONAL PRELIMINARY EXAMINING

PCT

NOTIFICATION OF TRANSMITTAL OF
INTERNATIONAL PRELIMINARY
EXAMINATION REPORT

(PCT Rule 71.1)

To:
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Date of mailing
(day/month/year) 16 MARCH 2005 (16.03.2005)

Applicant's or agent's file reference SH-19697-PCT		IMPORTANT NOTIFICATION	
International application No. PCT/KR2003/002573	International filing date (day/month/year) 26 NOVEMBER 2003 (26.11.2003)	Priority date (day/months/year) 27 NOVEMBER 2002 (27.11.2002)	
Applicant SAMSUNG ELECTRONICS CO., LTD. et al			

1. The applicant is hereby notified that International Preliminary Examining Authority transmits here with the international preliminary examination report and its annexes, if any, established on the international application.
2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.
4. **REMINDER**
The applicant must enter the national phase before each elected office by performing certain acts (filing translations and paying national fees) within 30 month(s) from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details in the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

Name and mailing address of the IPEA/KR  Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea Facsimile No. 82-42-472-7140	Authorized officer COMMISSIONER Telephone No. 82-42-481-5198	
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Form PCT/IPEA/416 (July 1992)

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PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference SH-19697-PCT		FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)
International application No. PCT/KR2003/002573	International filing date (day/month/year) 26 NOVEMBER 2003 (26.11.2003)	Priority date (day/month/year) 27 NOVEMBER 2002 (27.11.2002)	
International Patent Classification (IPC) or national classification and IPC IPC7 H04N 7/01			
Applicant SAMSUNG ELECTRONICS CO., LTD. et al			

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.



2. This REPORT consists of a total of 4 sheets, including this cover sheet.

☐ This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of _____ sheets.

3. This report contains indications relating to the following items:

- I ☒ Basis of the report
- II ☐ Priority
- III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☐ Certain defects in the international application
- VIII ☐ Certain observations on the international application

Date of submission of the demand	Date of completion of this report
Name and mailing address of the IPEA/KR  Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea Facsimile No. 82-42-472-7140	Authorized officer CHOI, Hoon Telephone No. 82-42-481-5990 

Form PCT/IPEA/409 (cover sheet) (July 1998)

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. _____

1. Basis of the report

1. With regard to the elements of the international application:*

- ☒ the international application as originally filed
- ☐ the description:
 pages _____, as originally filed
 pages _____, filed with the demand
 pages _____, filed with the letter of _____
- ☐ the claims:
 pages _____, as originally filed
 pages _____, as amended (together with any statement) under Article 19
 pages _____, filed with the demand
 pages _____, filed with the letter of _____
- ☐ the drawings:
 pages _____, as originally filed
 pages _____, filed with the demand
 pages _____, filed with the letter of _____
- ☐ the sequence listing part of the description:
 pages _____, as originally filed
 pages _____, filed with the demand
 pages _____, filed with the letter of _____

2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language _____ which is

- ☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).

3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, _____

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**

* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this opinion as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).

** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

INTERNATIONAL PRELIMINARY EXAMINATION

International application No.

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	_____	YES
	Claims	_____	NO
Inventive step (IS)	Claims	_____	YES
	Claims	_____	NO
Industrial applicability (IA)	Claims	_____	YES
	Claims	_____	NO

2. Citations and explanations (Rule 70.7)

Reference is made following documents :

D1 KR 1998-049262 A
D2 KR 1999-0177698 B1
D3 US 6,167,410 A
D4 JP 2000-23061 A

There are following differences between the present invention and the prior arts D1-D4.

The present invention relates to an apparatus and a method for reproducing interactive contents by controlling font according to aspect ratio conversion. Especially, the device is designed for reproducing an information storage medium where inactive contents including AV data including audio data and video data, mark-up documents and mark-up resource file are stored. As a result, the invention makes interactive image display possible without any image distortion by including a font decoder which previously executes enlarging or reducing the font in response to aspect ratio information and resolution information used for mark-up documents inputted in the above reproducing device and then, outputs the previously processed font data according to the conversion of aspect ratio and resolution in a real output image.

On the other hand, a graphic data resizing device in D1 is designed for video overlay so that the aspect ratio to the digital video data and position is proper by resizing the graphic and MPEG motion image simultaneously and displaying on the display. It brings in effects of load-decreasing of CPU and processing speed increasing.

In addition, an apparatus and a method for window zoom reproducing of optical disk player in D2 has a function of window zooming which enlarges and reduces a screen of the relevant area by the process that a user selects an optical disk on screen display font for a specific scene among

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Supplemental Box
(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of:

the all screens displayed through the screen during the reproduction. And the document processing apparatus for adding predetermined design types to an original document in D3 is to process the document based on the design type to the document data. Besides, a television receiver in D4 has a characteristic that display screen ratio is constant in case of receiving a image signal with different resolution.

As mentioned above, even if the present invention is similar to the prior arts in that both of them enlarge or reduce the documents through the storage medium, they are different in a sense of including the previous processing step which previously enlarges or reduces the font according to aspect ratio information and resolution information.

Therefore, claims 1-23 of the present invention are considered to involve novelty, an inventive step and an industrial applicability.